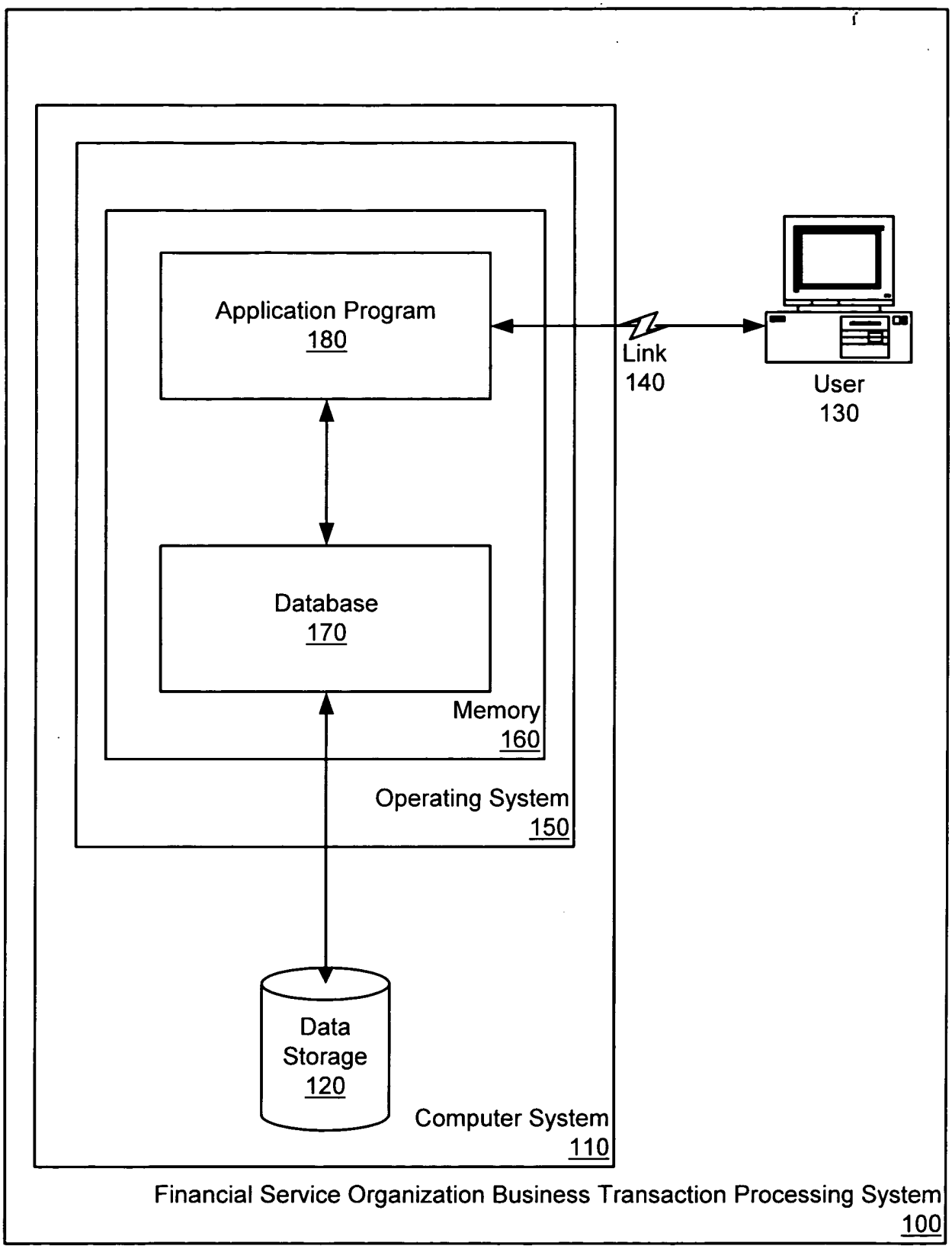


Figure 1

Prior Art

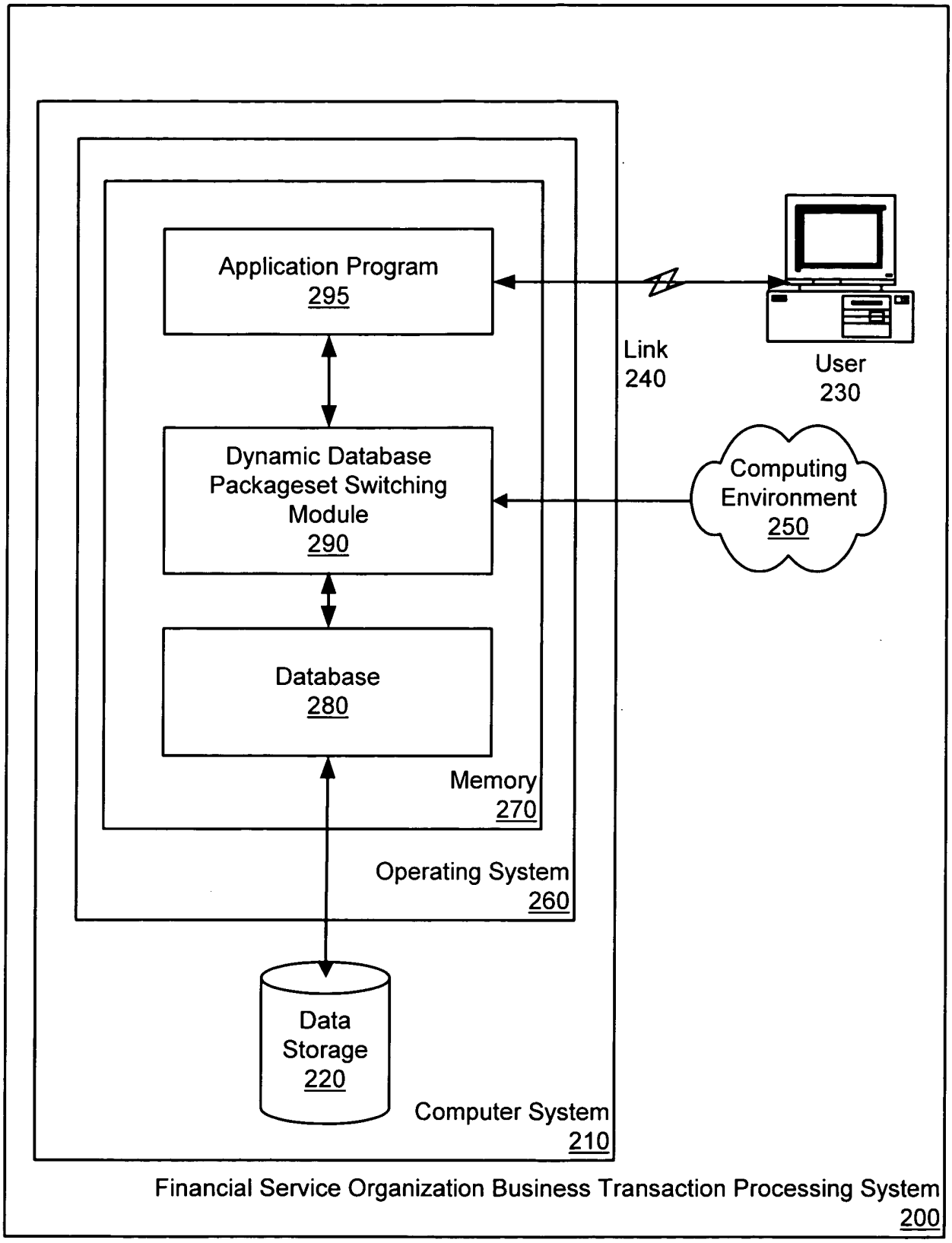

Application Program
295
Dynamic Database
Packageset Switching
Module
290
Database
280
Memory
270
Operating System
260
Data
Storage
220
Computer System
210
Link
240
User
230
Computing
Environment
250
Financial Service Organization Business Transaction Processing System
200

Figure 2

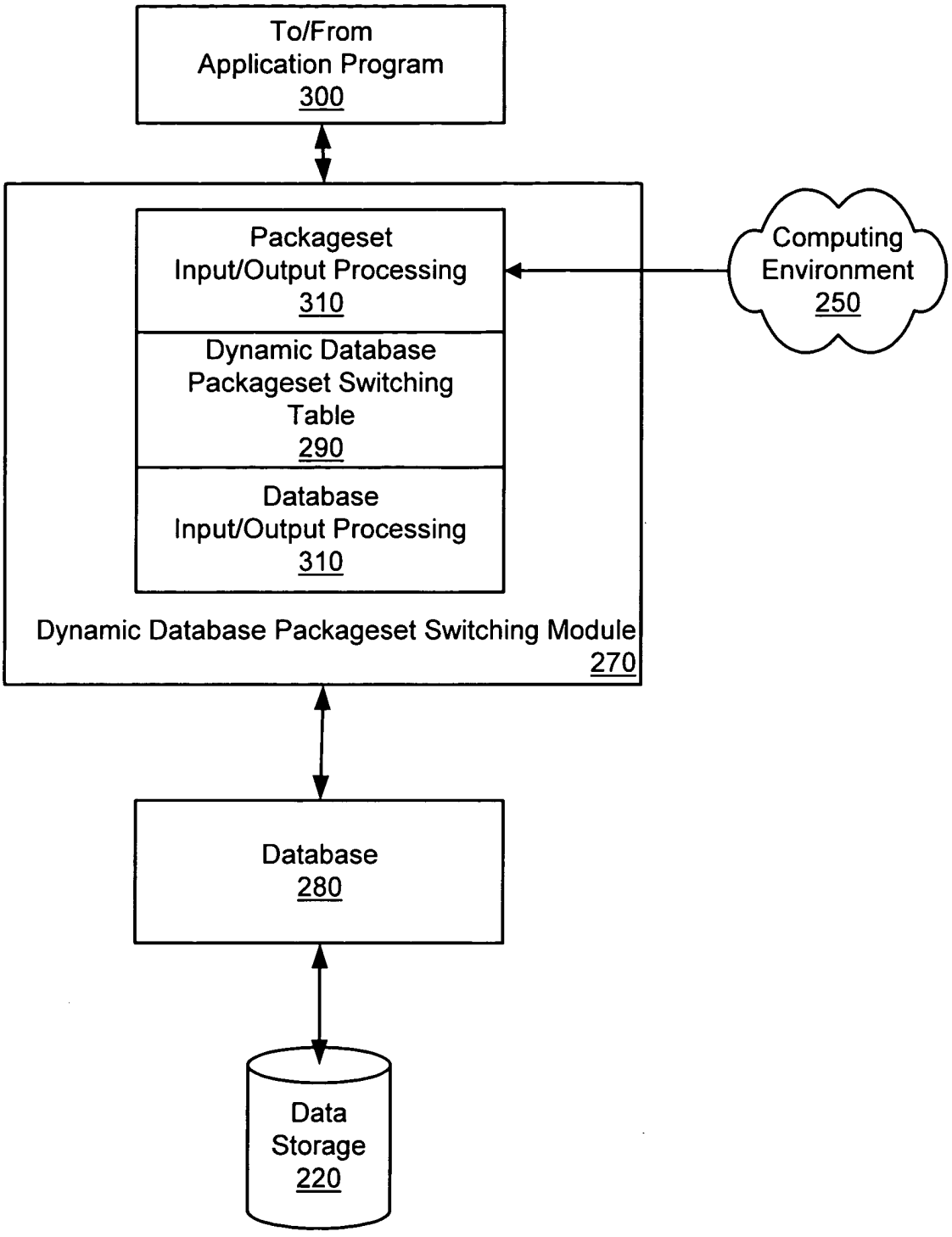

To/From
Application Program
300
Packageset
Input/Output Processing
310
Dynamic Database
Packageset Switching
Table
290
Database
Input/Output Processing
310
Dynamic Database Packageset Switching Module
270
Computing
Environment
250
Database
280
Data
Storage
220

Figure 2a

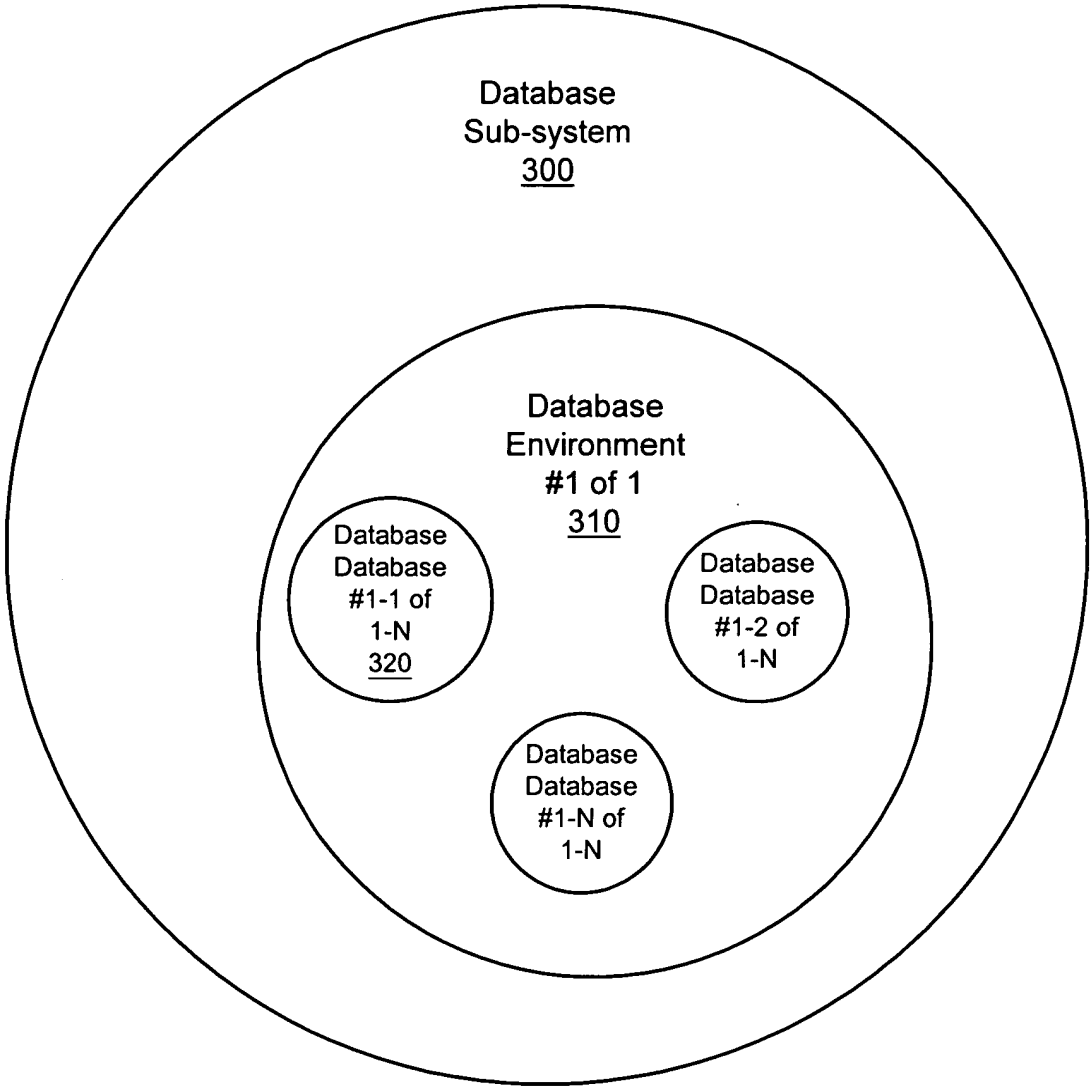


Figure 3

Prior Art

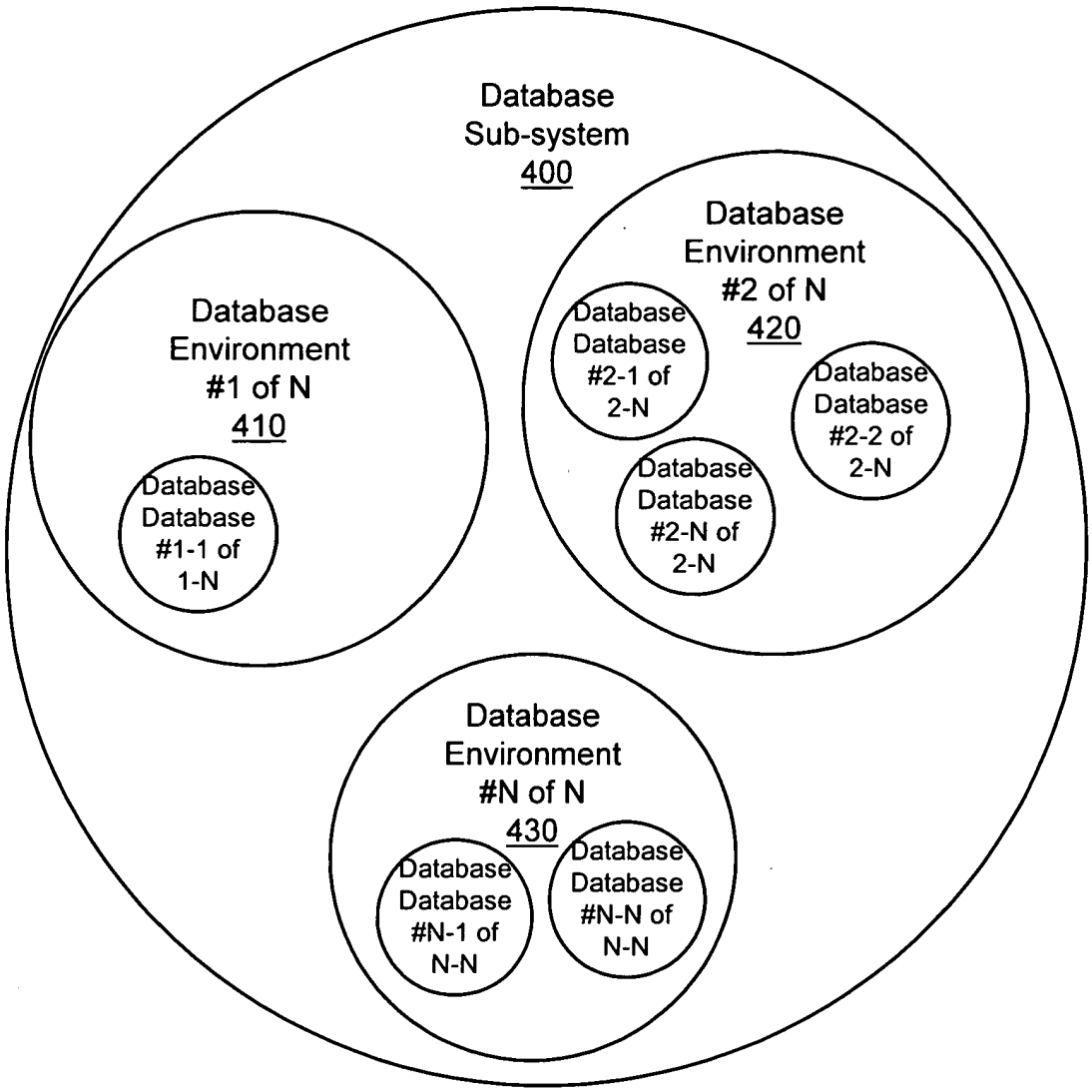

Database
Sub-system
400
Database
Environment
#1 of N
410
Database
Database
#1-1 of
1-N
Database
Environment
#2 of N
420
Database
Database
#2-1 of
2-N
Database
Database
#2-2 of
2-N
Database
Database
#2-N of
2-N
Database
Environment
#N of N
430
Database
Database
#N-1 of
N-N
Database
Database
#N-N of
N-N

Figure 4

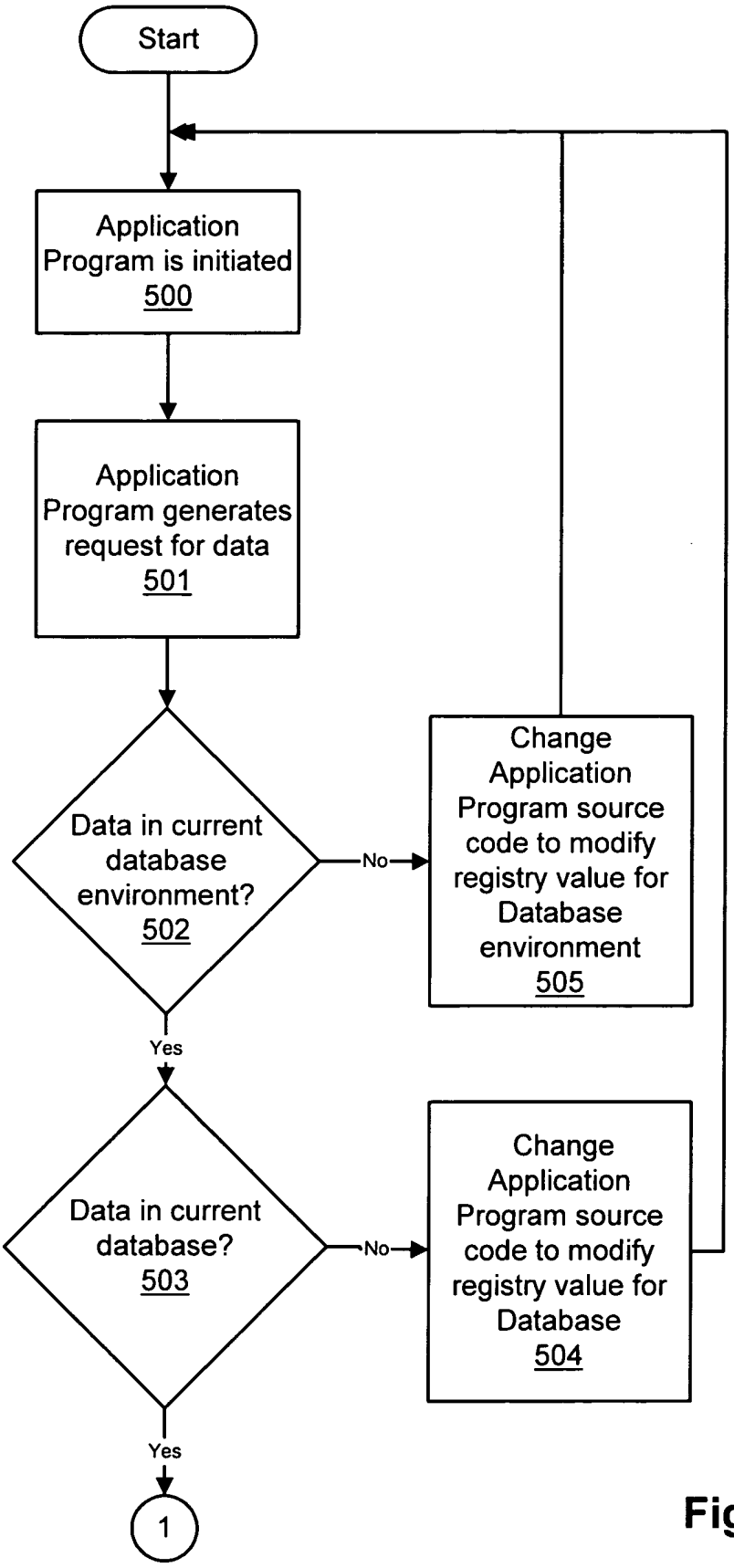


Figure 5

Prior Art

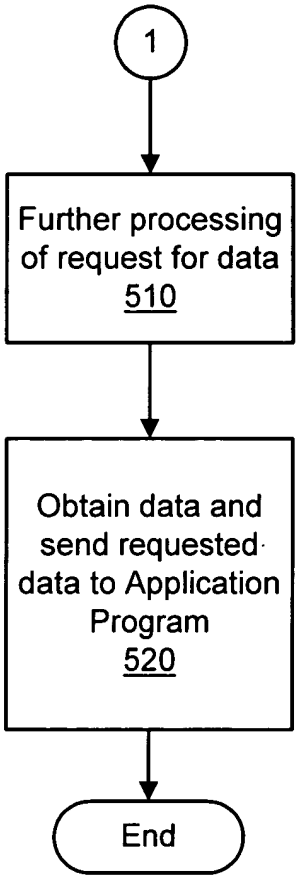

1
Further processing of request for data
510
Obtain data and send requested data to Application Program
520
End

Figure 5a

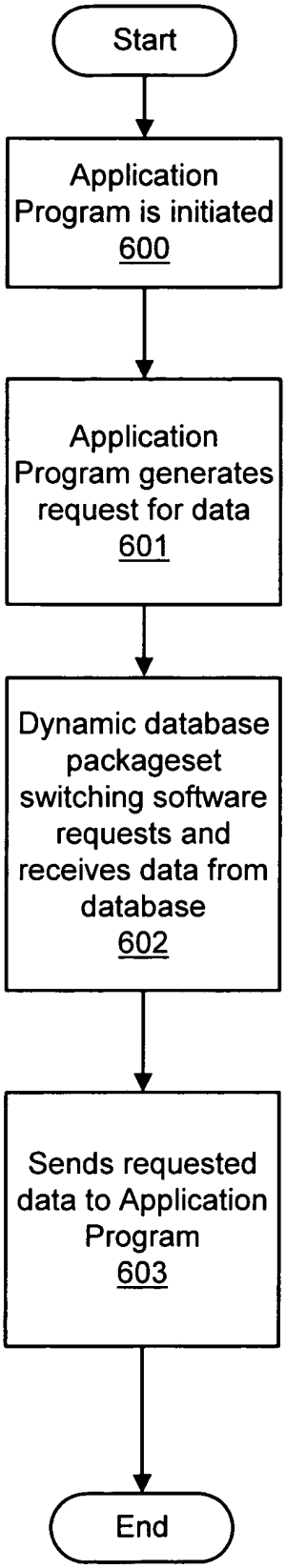

Start
Application Program is initiated 600
Application Program generates request for data 601
Dynamic database packageset switching software requests and receives data from database 602
Sends requested data to Application Program 603
End

Figure 6

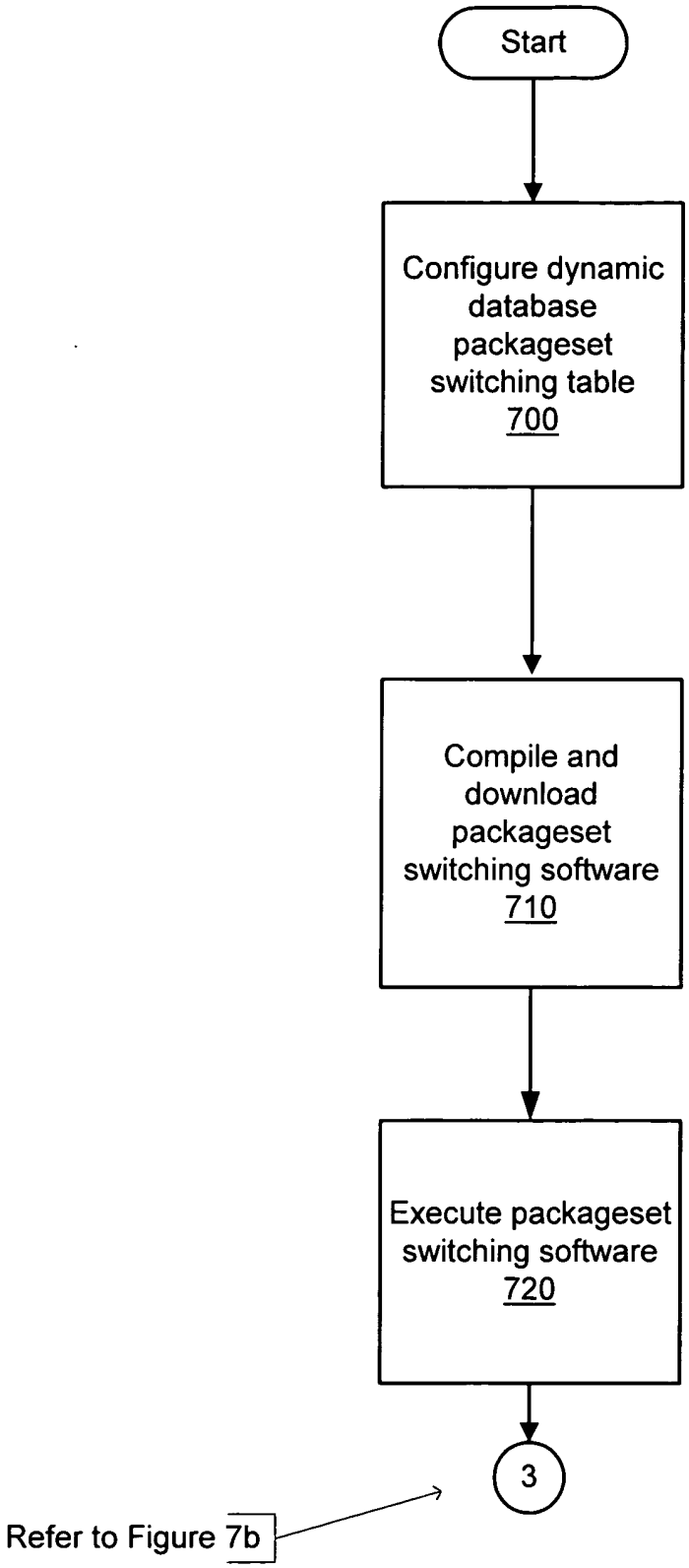

Start
Configure dynamic database packageset switching table 700
Compile and download packageset switching software 710
Execute packageset switching software 720
3
Refer to Figure 7b

Figure 7a

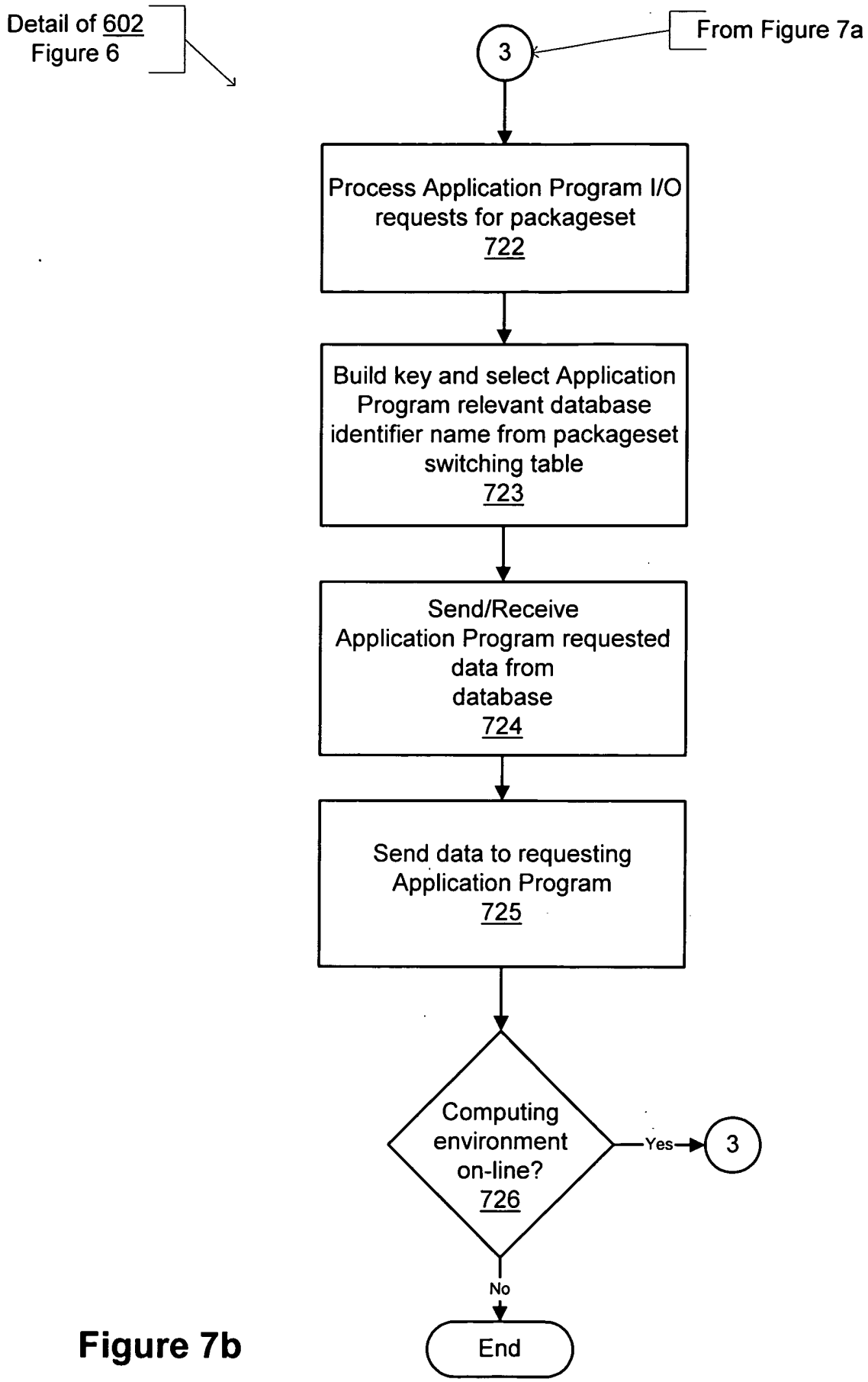

Detail of 602
Figure 6
From Figure 7a
3
Process Application Program I/O requests for packageset
722
Build key and select Application Program relevant database identifier name from packageset switching table
723
Send/Receive Application Program requested data from database
724
Send data to requesting Application Program
725
Computing environment on-line?
726
Yes
3
No
End

Figure 7b

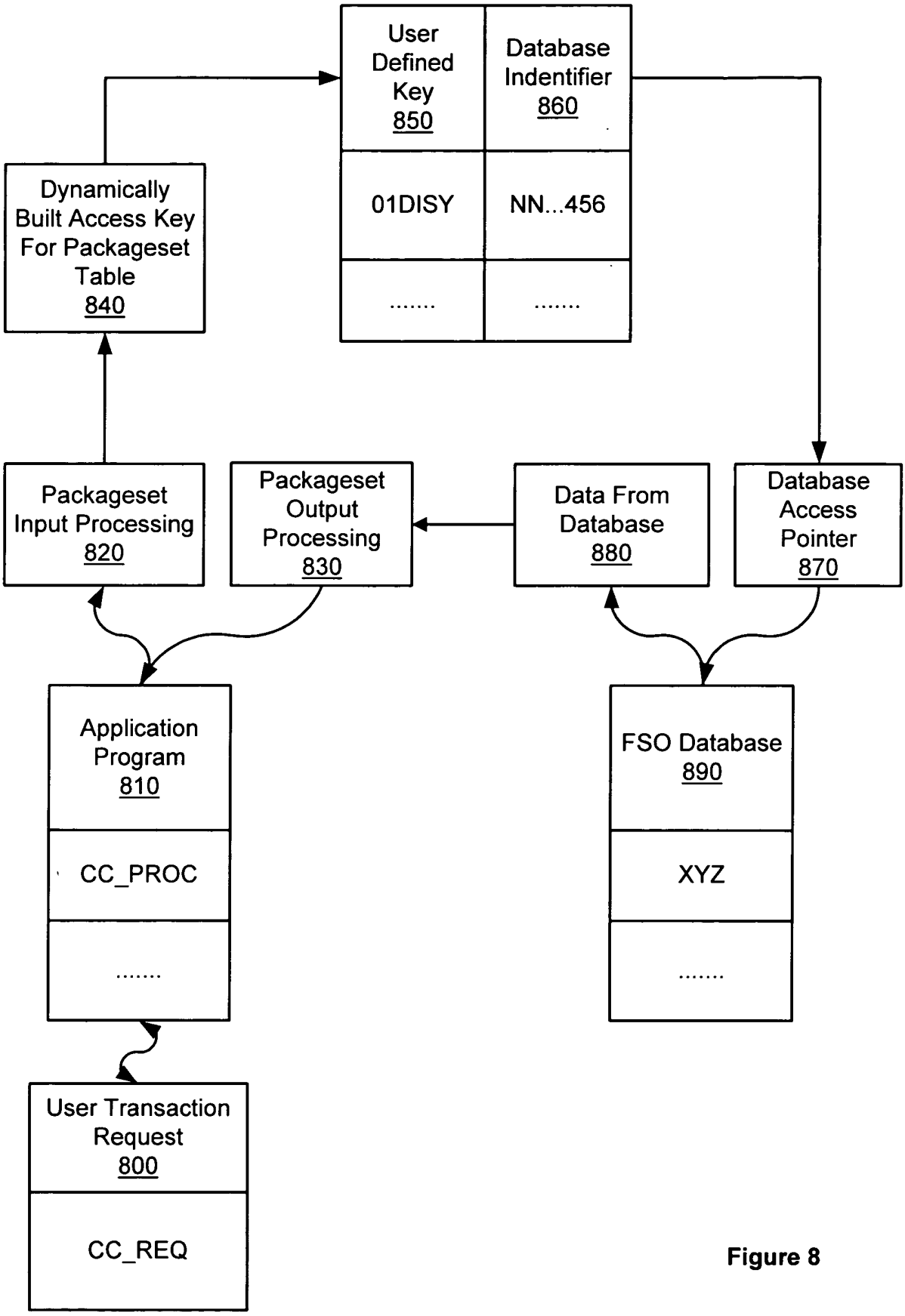
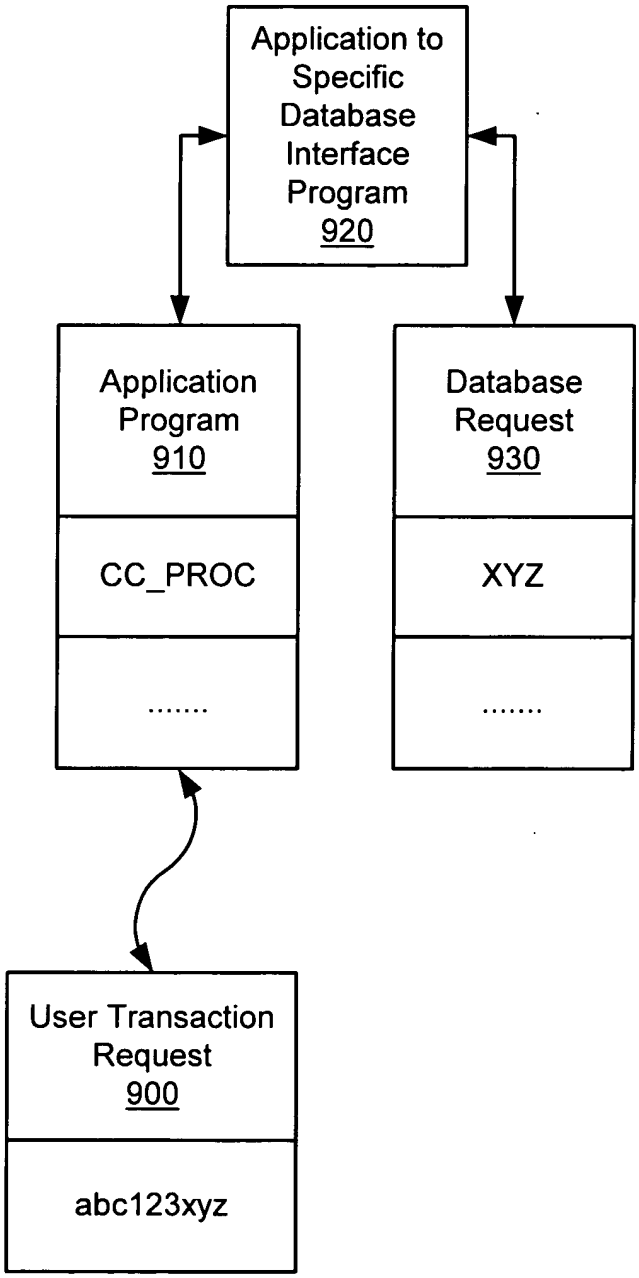

User Defined Key 850
Database Indentifier 860
01DISY
NN...456
.....
.....
Dynamically Built Access Key For Packageset Table 840
Packageset Input Processing 820
Packageset Output Processing 830
Data From Database 880
Database Access Pointer 870
Application Program 810
CC_PROC
.....
FSO Database 890
XYZ
.....
User Transaction Request 800
CC_REQ

Figure 8



PRIOR ART

Figure 9

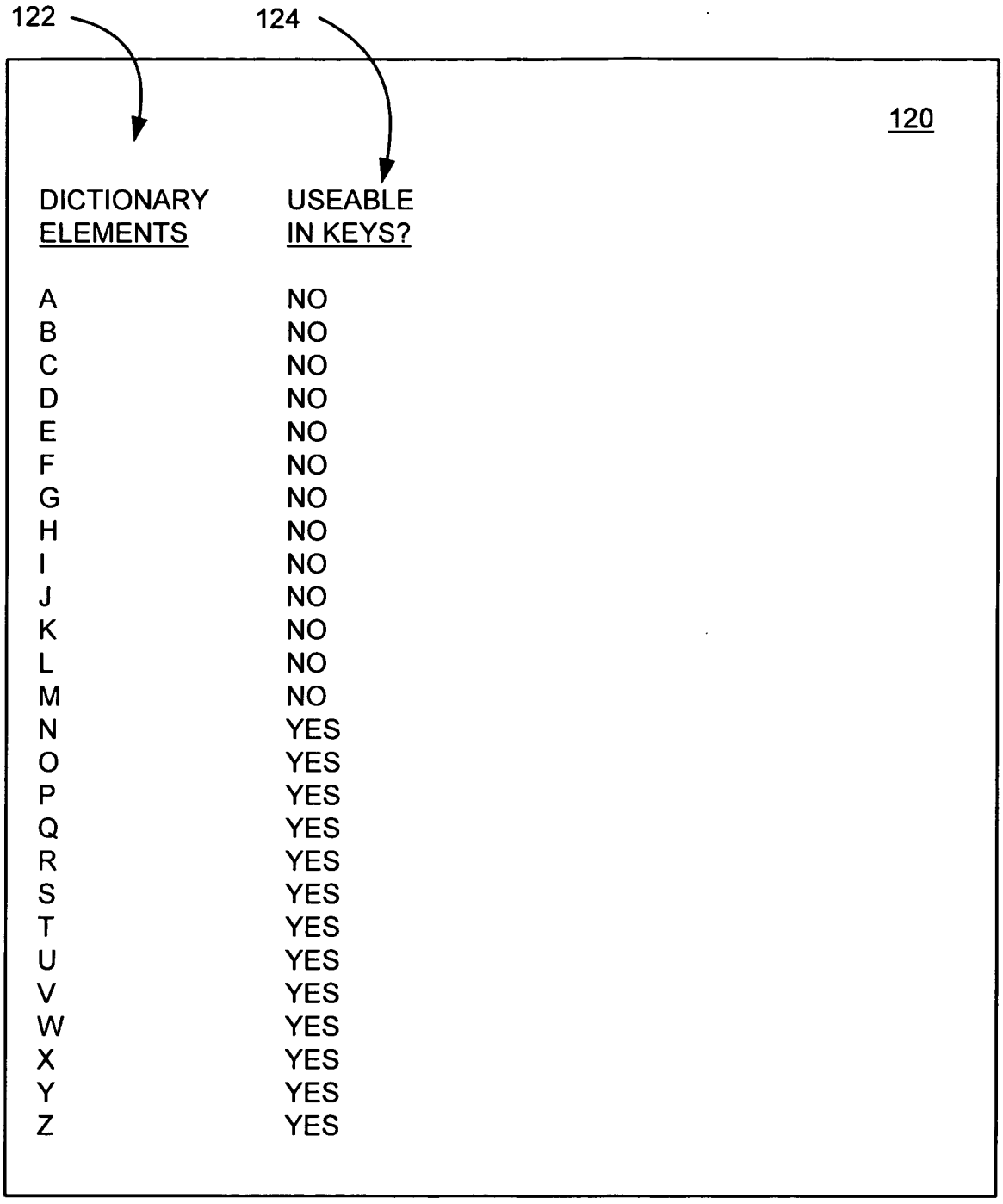

122
124
120
DICTIONARY ELEMENTS
USEABLE IN KEYS?
A NO
B NO
C NO
D NO
E NO
F NO
G NO
H NO
I NO
J NO
K NO
L NO
M NO
N YES
O YES
P YES
Q YES
R YES
S YES
T YES
U YES
V YES
W YES
X YES
Y YES
Z YES

FIGURE 10

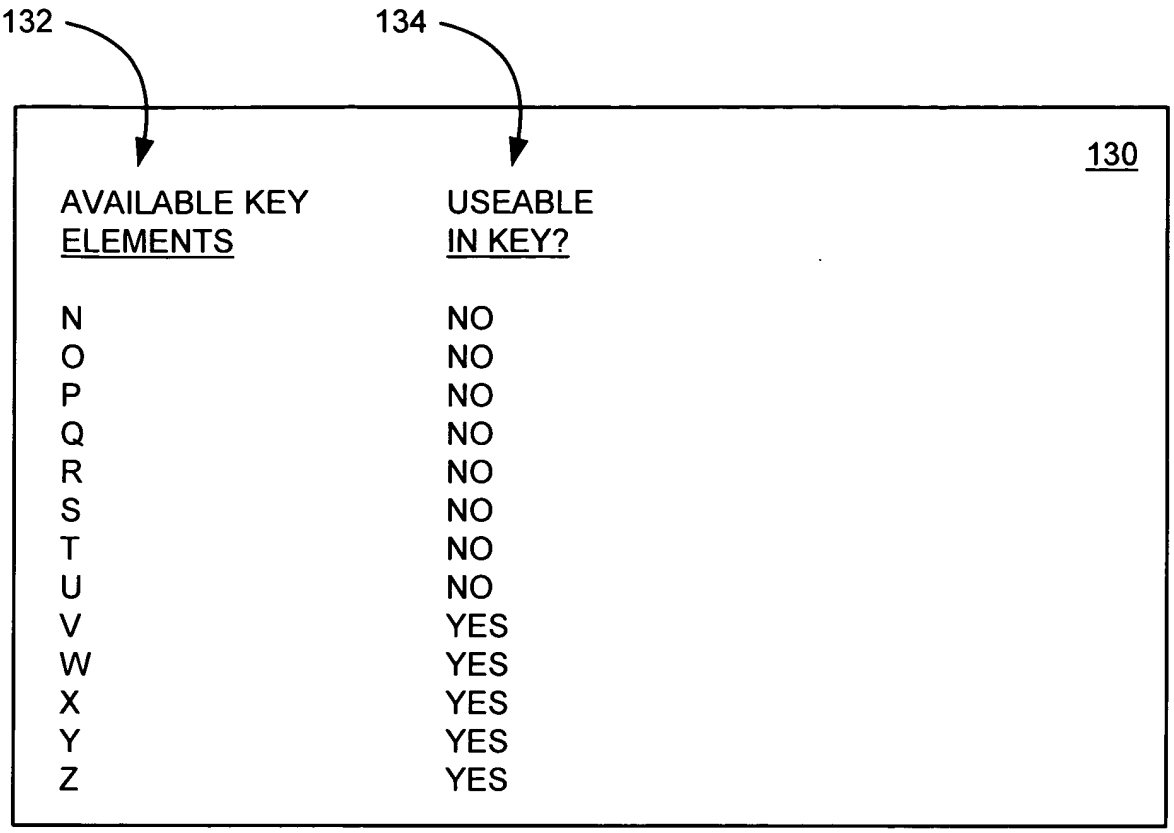


FIGURE 11

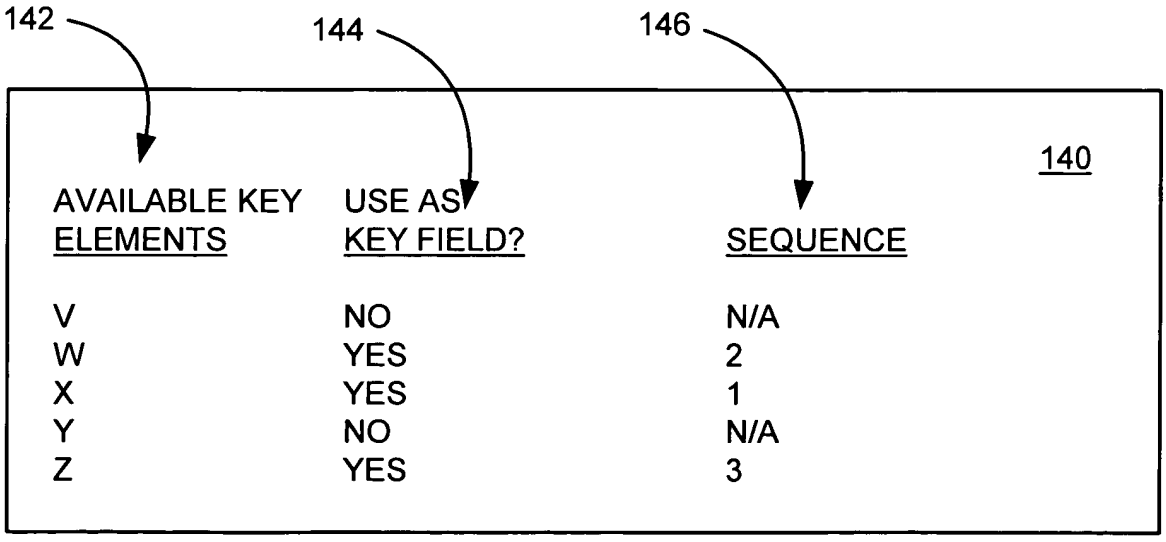


FIGURE 12

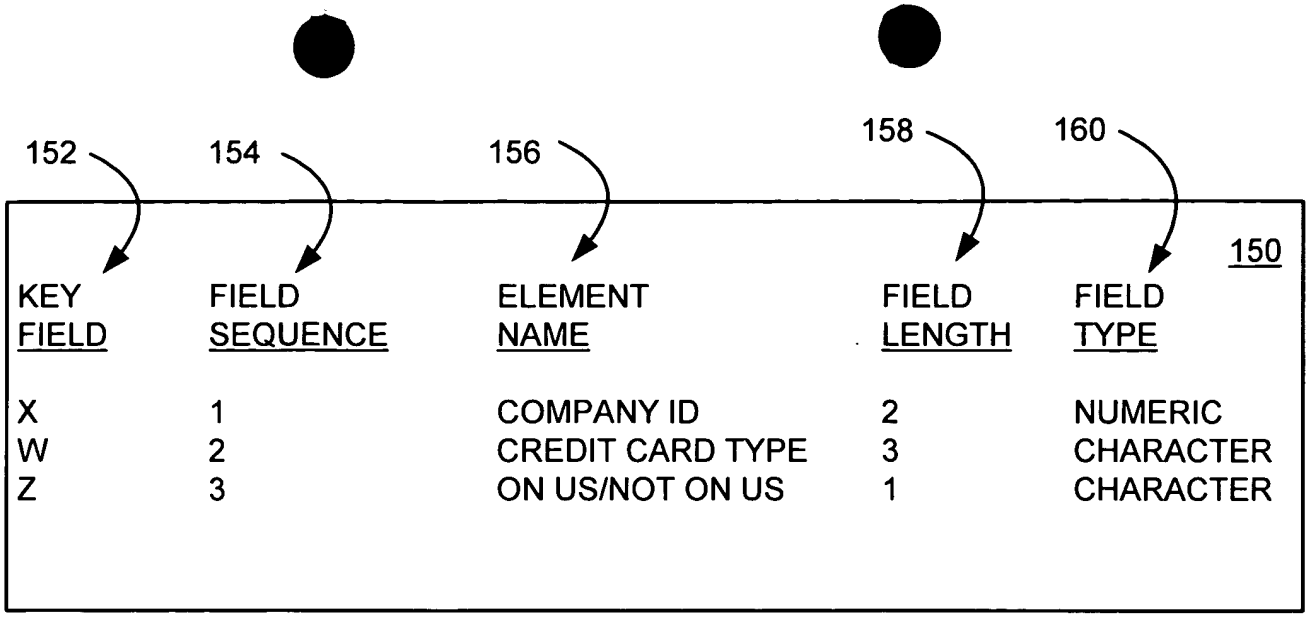


FIGURE 13

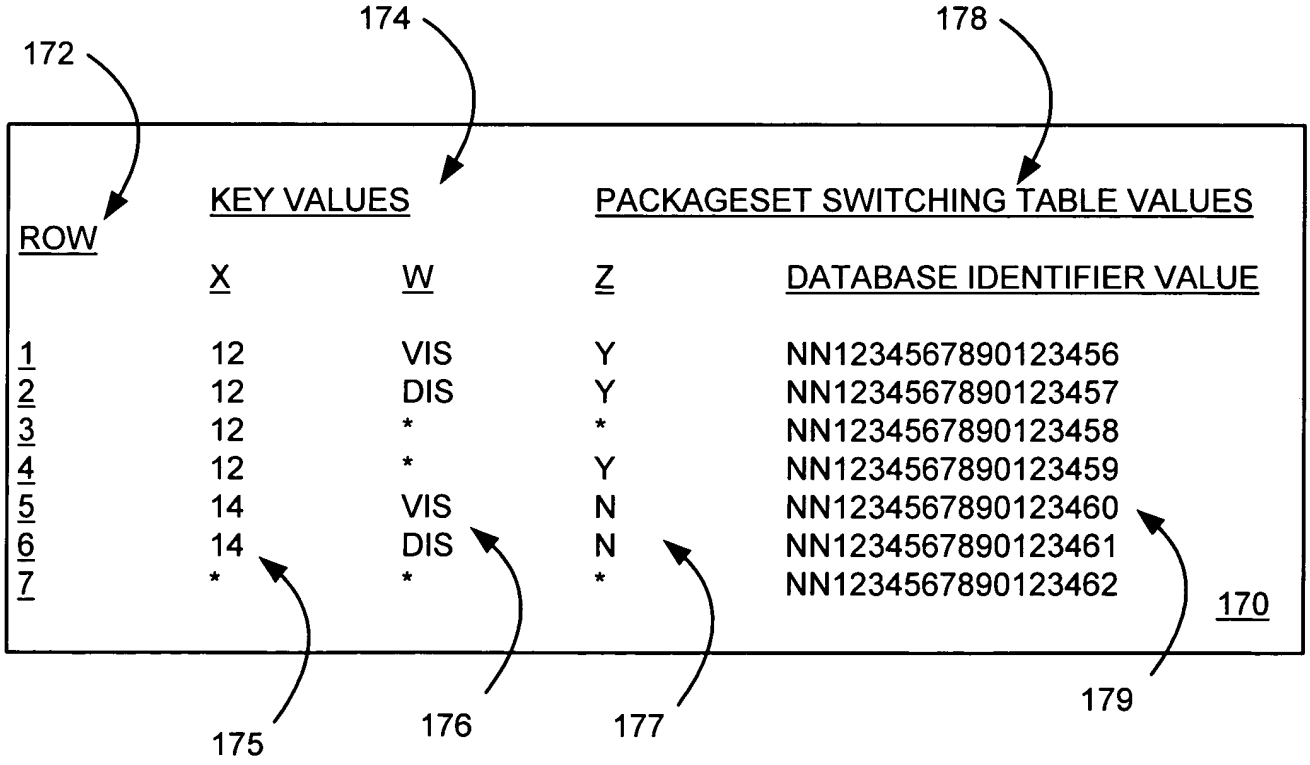


FIGURE 14

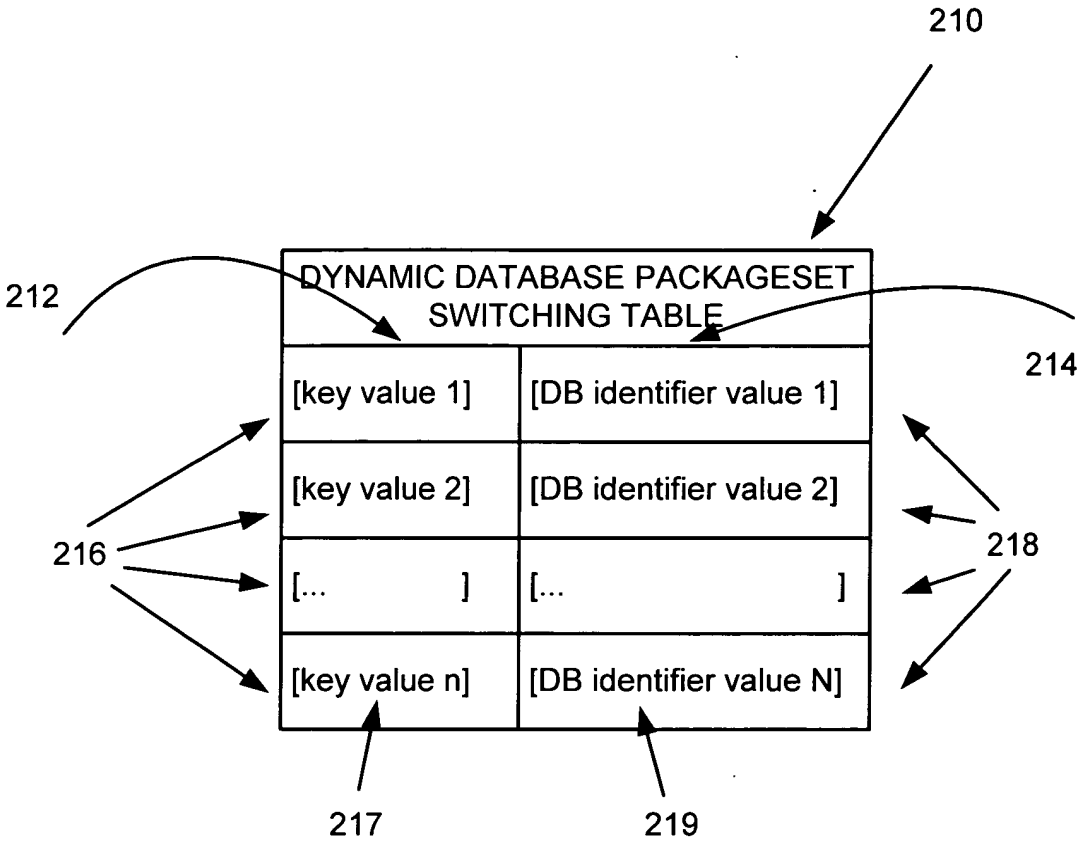

210
212
214
DYNAMIC DATABASE PACKAGESET SWITCHING TABLE
[key value 1]
[DB identifier value 1]
[key value 2]
[DB identifier value 2]
[...]
[...]
[key value n]
[DB identifier value N]
216
218
217
219

FIGURE 15